

Name: _____ Date: _____

Student Exploration: Cell Energy Cycle

Vocabulary: aerobic respiration, anaerobic respiration, ATP, cellular respiration, chlorophyll, chloroplast, cytoplasm, glucose, glycolysis, mitochondria, photosynthesis

Introduction

In 1977, scientists shocked the world with the announcement that they had discovered an entirely new ecosystem, thriving around hot springs in the deepest recesses of the ocean. This was exciting news because, until this discovery, it was thought that all life on Earth was dependent on the sun as its ultimate source of energy. What scientists found were bacteria that can synthesize sugars using energy from chemicals, like hydrogen sulfide, that are emitted from the hot springs.

The discovery was made in the Galapagos Rift, a deep trench in the eastern Pacific Ocean. The conditions that exist around these vents are similar to those that likely existed on Earth early in its development, billions of years ago. Therefore, some have suggested that these organisms may resemble some of the earliest forms of life to appear on Earth.

Glomo Warm-up

The *Cell Energy Cycle Glomo™* illustrates two processes that are essential to life: **photosynthesis** and **cellular respiration**.

Although both of these reactions involve a series of complex steps, the basic reactants and products in each process are relatively simple molecules.

1. What is the chemical formula of oxygen? _____
2. Glucose is a simple sugar. What is the chemical formula of glucose? _____
3. What is the chemical formula of carbon dioxide? _____
4. What is the chemical formula of water? _____



Activity A: Photosynthesis

Get the Glomo ready:

- If necessary, click **Reset**.
- Check that the **PHOTOSYNTHESIS** tab is selected.



Introduction: Photosynthesis occurs in the chloroplast, an organelle found in plant and algae cells. Within the chloroplast, a green pigment called chlorophyll converts the energy of light into a chemical form that the plant can use.

Question: What are the reactants and products of photosynthesis?

1. **Predict:** Of the molecules shown on the CHEMICALS pane, which do you think are reactants (ingredients) in photosynthesis? Which do you think are products?

Reactants: _____ Products: _____

Student Exploration Cell Energy Cycle Answer Key

Xiang Xie



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